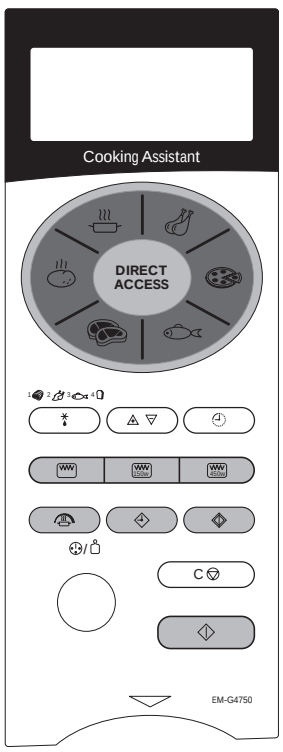
FILE No.

SERVICE MANUAL

MICROWAVE OVEN
WITH GRILL

EM-G4750EES
EM-G4750ECO



Product Code No.

EM-G4750EES	43748809
EM-G4750ECO	43748812

FOREWORD

Read this manual carefully, especially precaution on microwave energy, and follow the procedure strictly. Careless servicing and testing may expose yourself to the microwave energy leakage.

PRECAUTIONS

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(a) Do not operate or allow the oven to be operated with the door open.
(b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs if necessary:
(1) Interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and otherdamage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
(c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave-guide or transmission line, and cavity for proper alignment, integrity, and connections.
(d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.

REFERENCE No. SM-850213

TABLE OF CONTENTS

CAUTION
MICROWAVE ENERGY
PERSONNEL SHOULD NOT BE EXPOSED TO THE MICROWAVE ENERGY WHICH MAY RADIATE FROM THE MAGNETRON OR OTHER MICROWAVE GENERATING DEVICE IF IT IS IMPROPERLY USED OR CONNECTED. ALL INPUT AND OUTPUT MICROWAVE CONNECTIONS, WAVE GUIDES, FLANGES, AND GASKETS MUST BE SECURE. NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED. NEVER LOOK INTO AN OPEN WAVE GUIDE OR ANTENNA WHILE THE DEVICE IS ENERGISED.

1. ADJUSTMENT PROCEDURES

TO AVOID POSSIBLE EXPOSURE TO MICRO-WAVE ENERGY LEAKAGE, THE FOLLOWING ADJUSTMENT OF THE INTERLOCK SWITCHES SHOULD BE MADE ONLY BY AUTHORISED SERVICE PERSONNEL

PRIMARY INTERLOCK SWITCH, DOOR SENSING SWITCH AND INTERLOCK MONITOR SWITCH ADJUSTMENT
(Figure 1)

(1) Loosen 2 screws securing the lever stopper.
(2) Adjust the lever stopper position so that it is pushed up and pull forward until there is about zero gap.
  2-1. Between the lever and the switch body on the door sensing switch.
  2-2. Between the lever and the switch body on the interlock monitor switch.
  2-3. Between the latch lever and the switch body on the primary interlock switch.
  when the door latch is securely locked.
(3) Tighten the lever stopper screws securely.
(4) Make sure the interlock monitor is closed after the primary interlock switch opens when the door is opened very slowly, according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 8.
(5) Make sure the interlock monitor is open before the primary interlock and secondary interlock switches close when the door is closed very slowly, according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 8.
(6) Make sure the microwave energy leakage is below the limit of the regulation (5mW/cm^2) when measured with a detector. (All service adjustments must be made for minimum energy leakage readings.)

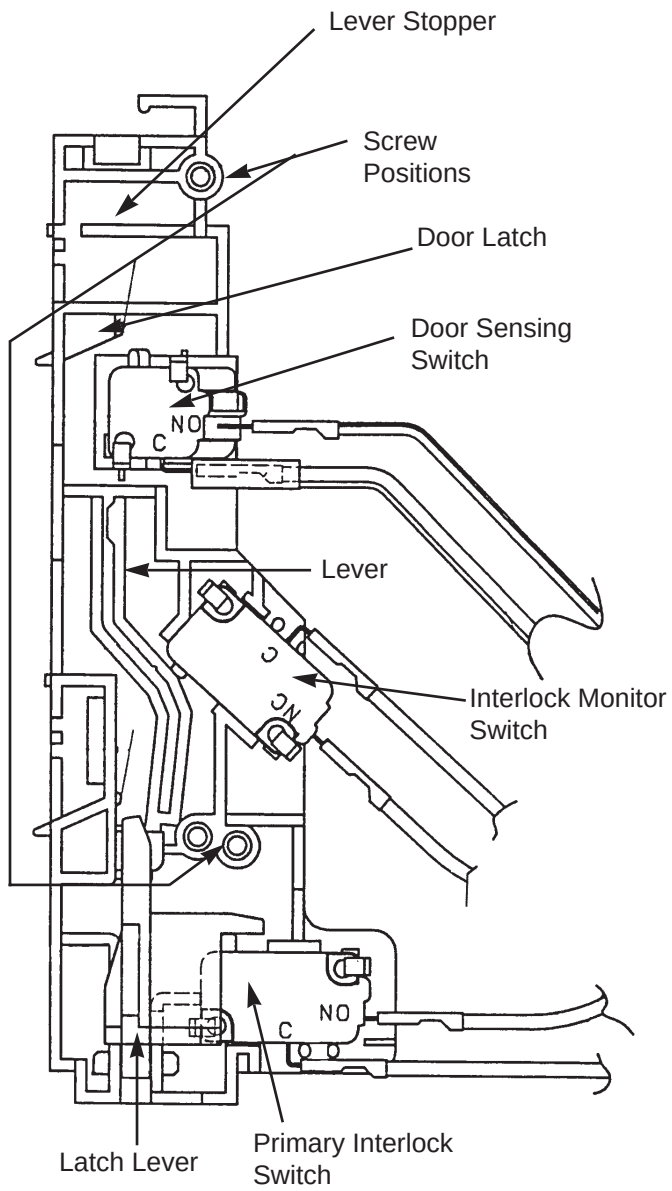


Figure 1

2. SPECIFICATIONS - EM-G4750

Rated Power Consumption.....	Micro 1450±10%W Grill 1100+5/-10%W Dual 2500+5/-10%W (After 15mins.)
Microwave Output.....	900W(Adjustable 90W through 900W)
Frequency.....	2,450MHz ± 50MHz
Power Supply.....	230V,50Hz
Rated Current.....	Micro 6.3±10% Amps Grill 4.75+5/-10% Amps Dual 10.9+5/-10% Amps (After 15mins.)
Safety Devices.....	Thermal Protector for Magnetron and Cavity, Open at 122˚C Thermal Protector for Heater, Open at 150˚C Fuse (Cartridge Type 8A) Primary Interlock Switch Door Sensing Switch Interlock Monitor Switch
Timer.....	Electronic Digital
Overall Dimensions.....	490(W)x378(D)x322(H)mm
Oven Cavity Size.....	304(W)x304(D)x248(H)mm
Turntable Diameter.....	262mm
Net Weight.....	Approx. 17.0kg.

3. POWER OUTPUT MEASUREMENT

(1) Prepare 1000cc tap water in a wide mouthed Pyrex container.

(2) Stir thoroughly and note initial water temperature T1 (˚C).

(3) Place container in centre of oven and operate for 60 seconds at full power.

(4) Remove container, stir thoroughly and note final water temperature T2 (˚C).

(5) Calculate power output= 70 x Temp. rise (T2-T1).

NOTE: This is only an approximate test method, not IEC705 test method to which the microwave oven has been tested and rated.

4.PRECAUTIONS AND REPAIR SERVICE TIPS PRELIMINARY

A.SINCE NEARLY 4,000 VOLTS EXIST IN SOME CIRCUITS OF THIS MICROWAVE OVEN, REPAIRS SHOULD BE CARRIED OUT WITH GREAT CARE

B.TO AVOID POSSIBLE EXPOSURE TO MICROWAVE ENERGY LEAKAGE, THE FOLLOWING PRECAUTIONS MUST BE TAKEN BEFORE SERVICING.

(1)Before the power is applied.
(a)Open and close door several times to make sure the primary interlock switch, the door sensing switch, and the interlock monitor switch operate properly. (Listen for the clicking sound from switches). Make sure the interlock monitor switch is closed after the primary interlock switch is opened, when the door is opened. (See pages 1 and 7).
(b)Make sure the perforated screen and the dielectric choke of the door are correctly mounted.

(2)After the power is applied.
(a)Open and close the door to see if the interlock mechanism operates properly.
(b)Check microwave energy leakage with a leakage detector and confirm the energy leakage is below 5mW/cm^2.

(3)Do not operate the unit until it is completely repaired, if any of the following conditions exists.
(a)Door does not close firmly against the cavity front.
(b)The hinge is broken.
(c)The choke dielectric or the door seal is damaged.
(d)The door is bent or warped, or there is any other visible damage to the oven that may cause microwave energy leakage.
NOTE: Always keep the seal clean
(e)Make sure there are no defective parts in the microwave generating and transmission assembly. (especially waveguide).

(4)Following items should be checked after the unit is repaired.
(a)The interlock monitor switch is connected correctly and firmly.
(b)The magnetron gasket on the magnetron is properly positioned.
(c)Wave guide and oven cavity are intact (no leakage of microwave energy).
(d)The door can be properly closed and the safety switches work properly.
(e)The oven must be stopped when the door is opened or the time is up.

The oven must not be operated with any of the above components removed or bypassed.

5. OVEN CONTROL PANEL

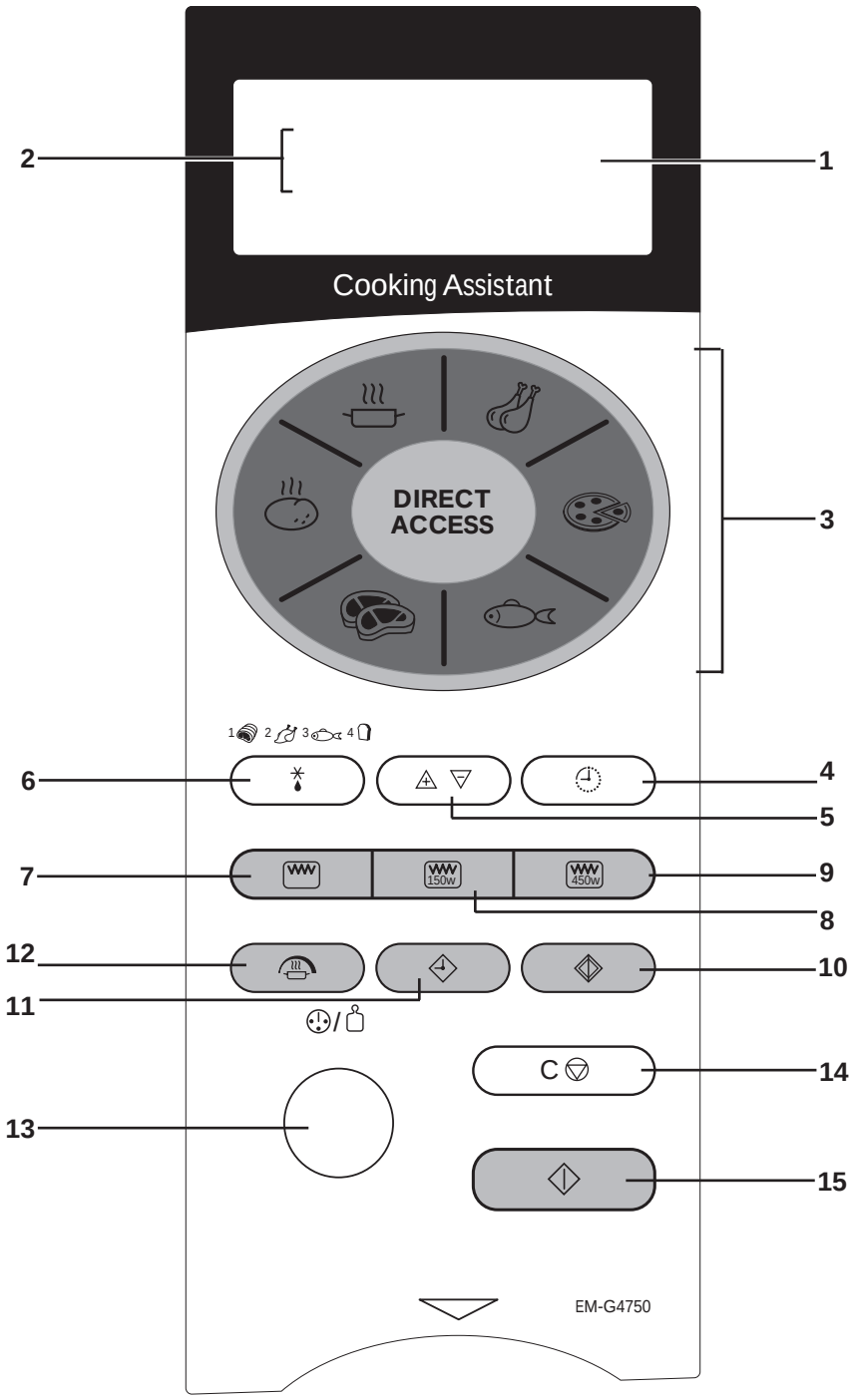


Figure 1

KEYS:

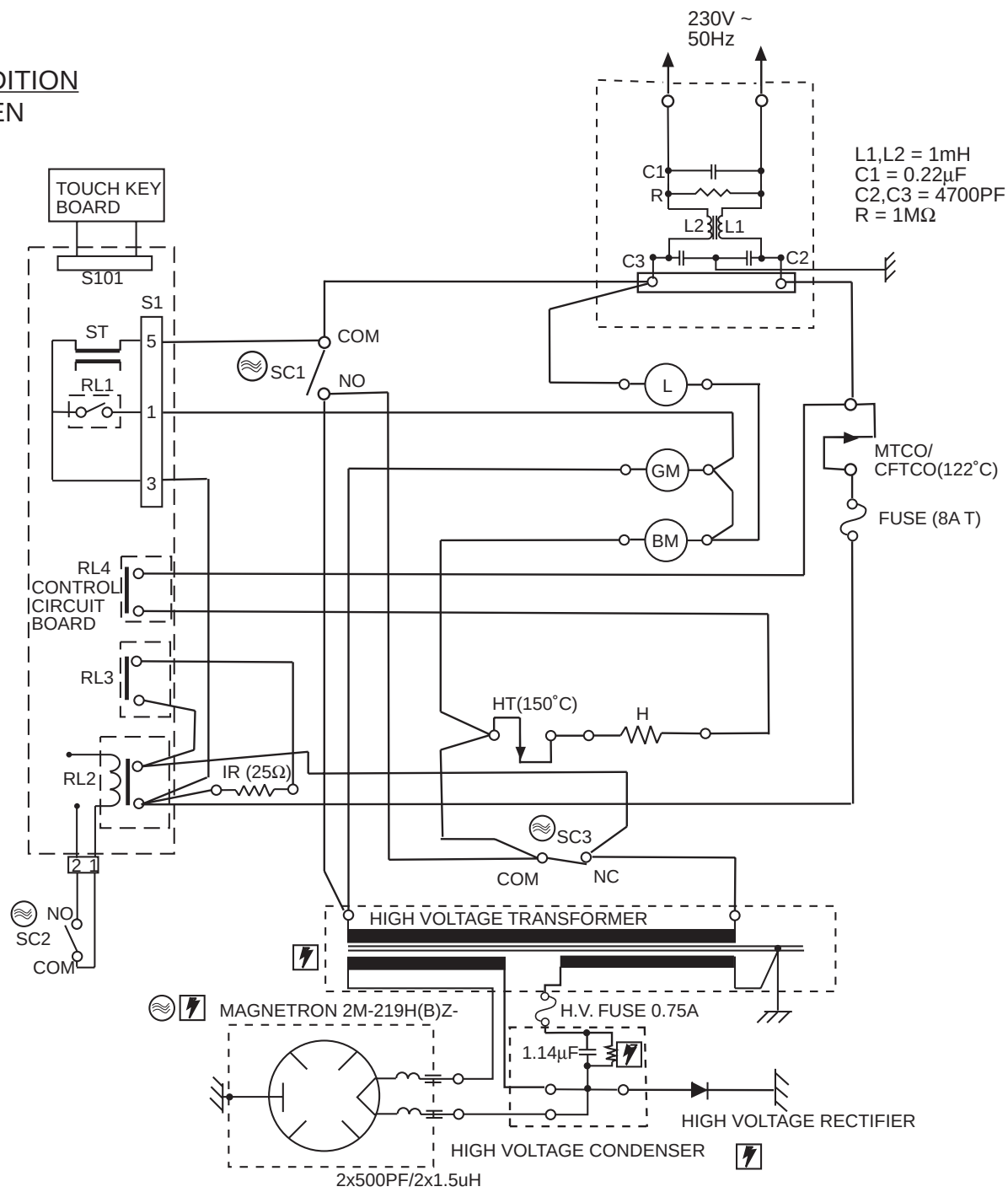
1. **Display Window**
2. **Indicators:**
   Auto/Def.-
   Cooking mode indicators.
   Time/ Start/ kg
   A flashing indicator that prompts you to enter the desired cooking time, start the oven, enter food weight or enter the time of day.
3. **Auto Menu Programs.**
4. **Kitchen Timer**
5. **More/ Less Key**
6. **Auto Defrost**
7. **Grill Mode**
8. **Dual 150W**
9. **Dual 450W**
10. **Quick Start Key**
11. **Delay Start Key**
12. **Microwave Power**
13. **Timer/ Weight Set**
14. **Clear/ Stop**
15. **Start.**

Notes :

A "beep tone" sounds when a "pad" on the control panel is touched, to indicate a setting has been entered.
When setting the controls you can keep your finger on a key until the desired setting is reached.

6.CIRCUIT DIAGRAM
EM-G4750 (Europe)

OVEN CONDITION
DOOR : OPEN



SC1 : PRIMARY INTERLOCK SWITCH
SC2 : DOOR SENSING SWITCH
SC3 : INTERLOCK MONITOR SWITCH
MTCO/CFTCO : MAGNETRON/CAVITY FIRE THERMAL CUT OUT
HT : HEATER THERMOSTAT
RL1 : MAIN RELAY
RL2 : POWER CONTROL RELAY
RL3 : INRUSH CURRENT REDUCING RELAY
RL4 : GRILL HEATER RELAY
BM : BLOWER MOTOR
GM : GEAR MOTOR
L : CAVITY LAMP
IR : INRUSH RESISTOR
ST : STEP DOWN TRANSFORMER

- The parts marked with are supplied with a high voltage which exceeds 250V.

- The parts marked with have special characteristics important for microwave leakage. When replacing any of these parts use only manufacturer's specified parts.

7. TEST PROCEDURES AND TROUBLESHOOTING

CAUTION

- DISCONNECT THE POWER SUPPLY CORD FROM THE WALL OUTLET WHENEVER REMOVING THE CABINET FROM THE UNIT. PROCEED WITH THE TESTS ONLY AFTER DISCHARGING THE HIGH VOLTAGE CAPACITOR AND REMOVING THE LEAD WIRES FROM THE PRIMARY WINDING OF THE HIGH VOLTAGE TRANSFORMER. (See Figure 3)

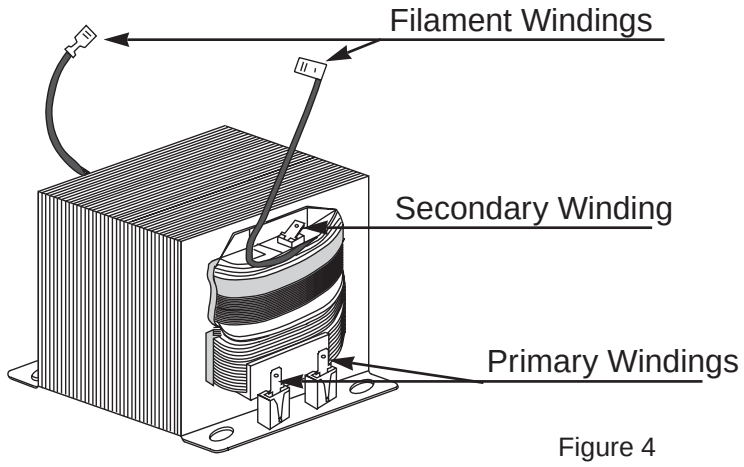
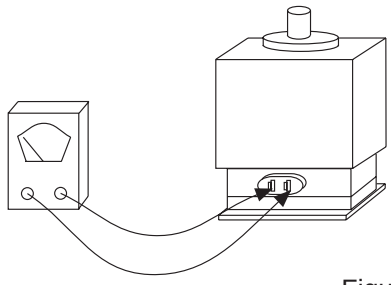
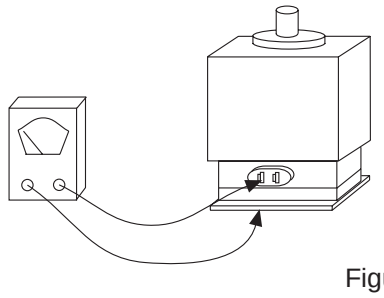
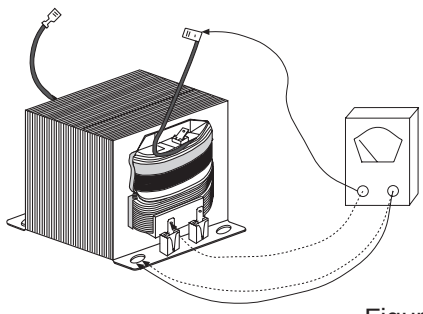
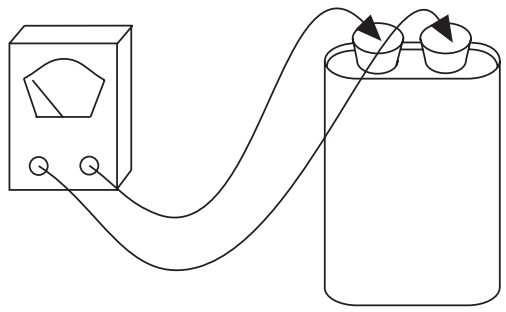
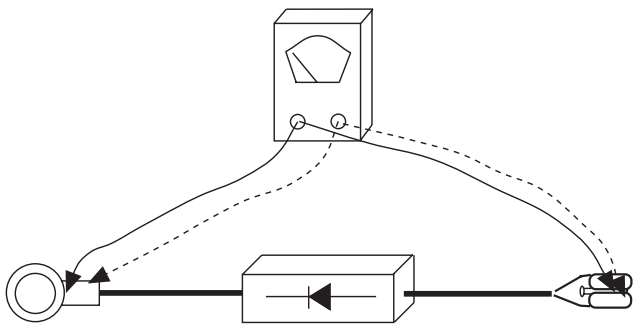


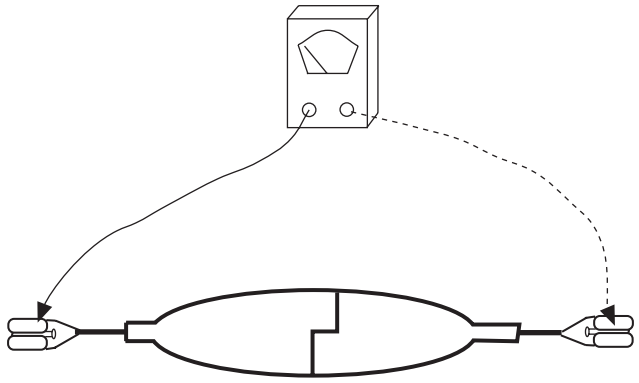
Figure 4

A. TEST PROCEDURE

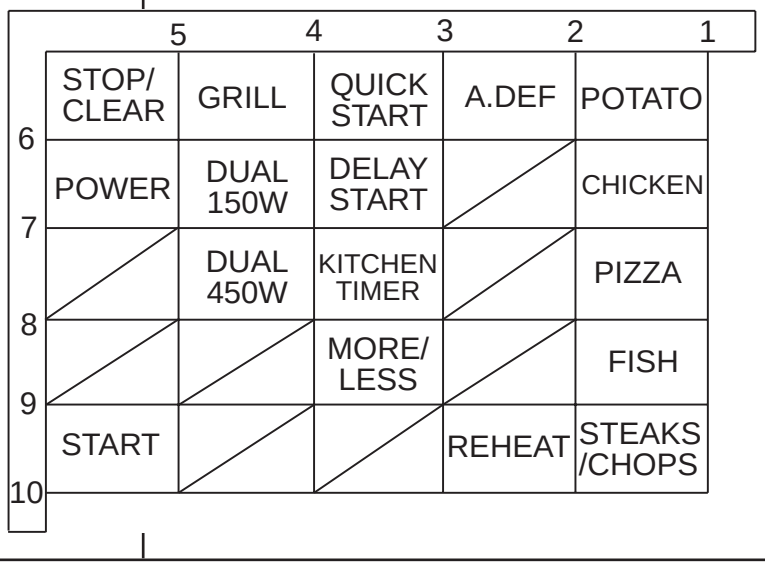
COMPONENT	CHECKOUT PROCEDURE	RESULTS
MAGNETRON	1) Check for resistance : Across the filament terminals of the the magnetron with an ohmmeter on Rx1 scale.  Figure 5	Normal reading : Less than 1 ohm.
	2) Check for resistance : Across the filament terminals of the magnetron and the chassis ground with an ohm-meter on highest scale.  Figure 6	Normal reading : Infinite ohms
	The chart below shows the firing times of the variable power relay for the EM-G4750 model. The table should be used as a means to check the magnetron is operating correctly and producing any other power setting apart from full power.	

Power Level	On Time/s (inc.'ramp up' time)	% On Time
High (900W)	30.0	100
M-High(750W)	28.0	93
Roast (450W)	18.0	60
Simmer(300W)	13.0	43
Warm (150W)	8.0	27
Low (80W)	6.0	20

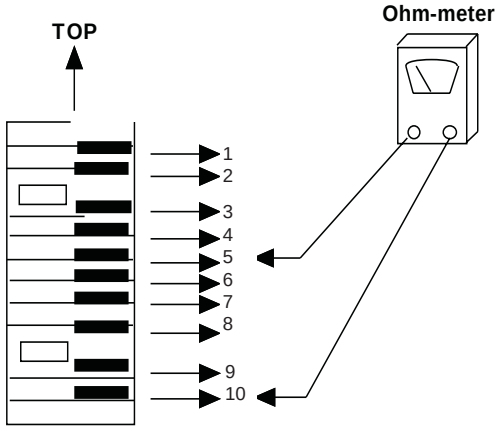
COMPONENT	CHECKOUT PROCEDURE	RESULTS
HIGH VOLTAGE TRANSFORMER	1) Measure the resistance : With an ohmeter on Rx1 scale. a. Primary Winding ; b. Filament Winding ; c. Secondary Winding ; 2) Measure the resistance : With an ohm-meter on highest scale. a. Primary winding to ground ; b. Filament winding to ground ;  Figure 7	Normal readings : Approximately 1.7 ohms. Less than 1 ohm. Approximately 92 ohms. Normal readings : Infinite ohms Infinite ohms Note : Remove varnish of measured point.
HIGH VOLTAGE CAPACITOR including BLEEDER RESISTOR	1) Measure the resistance : Across two terminals with an ohm-meter on highest scale  Figure 8	Normal reading : Momentarily indicates several ohms, and gradually returns to 10 Meg-ohm. Abnormal reading : Indicates continuity or 10MΩ from the beginning.
HIGH VOLTAGE DIODE	Measure the resistance : Across two terminals with an ohm-meter on its highest scale.  Figure 9	Normal reading : Indicates over 10MΩ in one direction (forward direction) and infinite ohms in the reverse direction, using meter which is provided with a 9-volt battery. **NOTE** Some digital meters may show over even in a forward direction because low measuring voltage of meter does not allow the meter current to pass through the high voltage diode. Abnormal reading: Indicates continuity or infinite ohms in both directions.

<table>
<tr><th>COMPONENT</th><th>CHECKOUT PROCEDURE</th><th>RESULTS</th></tr>
<tr><td>HV FUSE</td><td>Measure the resistance : Across two terminals with an ohm-meter on its highest scale.
 
Figure 10</td><td>Normal reading :
Indicates continuity.

Abnormal reading :
Indicates infinite ohms.</td></tr>
<tr><td>CONTROL CIRCUIT BOARD COMPLETE</td><td>Measure the voltage : Between test points TP-1,TP-2, and ground (See control circuit board on page 20).
<u>NOTE</u>
Proceed with the check of the step down transformer, to see if any one of the measured values is different from the specified values</td><td><table><tr><td>Test point</td><td>TP-1</td><td>TP-2</td></tr><tr><td>Voltage</td><td>-5V DC</td><td>-15V DC</td></tr></table></td></tr>
<tr><td>TOUCH KEY BOARD</td><td>Measure the resistance between terminals of FPC connector after removing it from S101. (See Figure 11).
NOTE
- When reconnecting the FPC connector, make sure the holes on the connector are properly inserted in hooks of the plastic fastener in S101.

MATRIX CIRCUIT FOR TOUCH KEYBOARD FPC CONNECTOR
 
</td><td><table><tr><td>Resistance Value</td><td>When touched

Less than 1K Ohms</td><td>When not touched

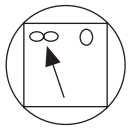
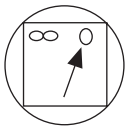
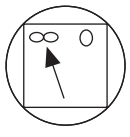
More than 1 MEG Ω</td></tr></table>
When checking the "START" key, connect Ohmmeter as illustration below.
 

TERMINALS OF FPC CONNECTOR

Figure 11</td></tr>
</table>

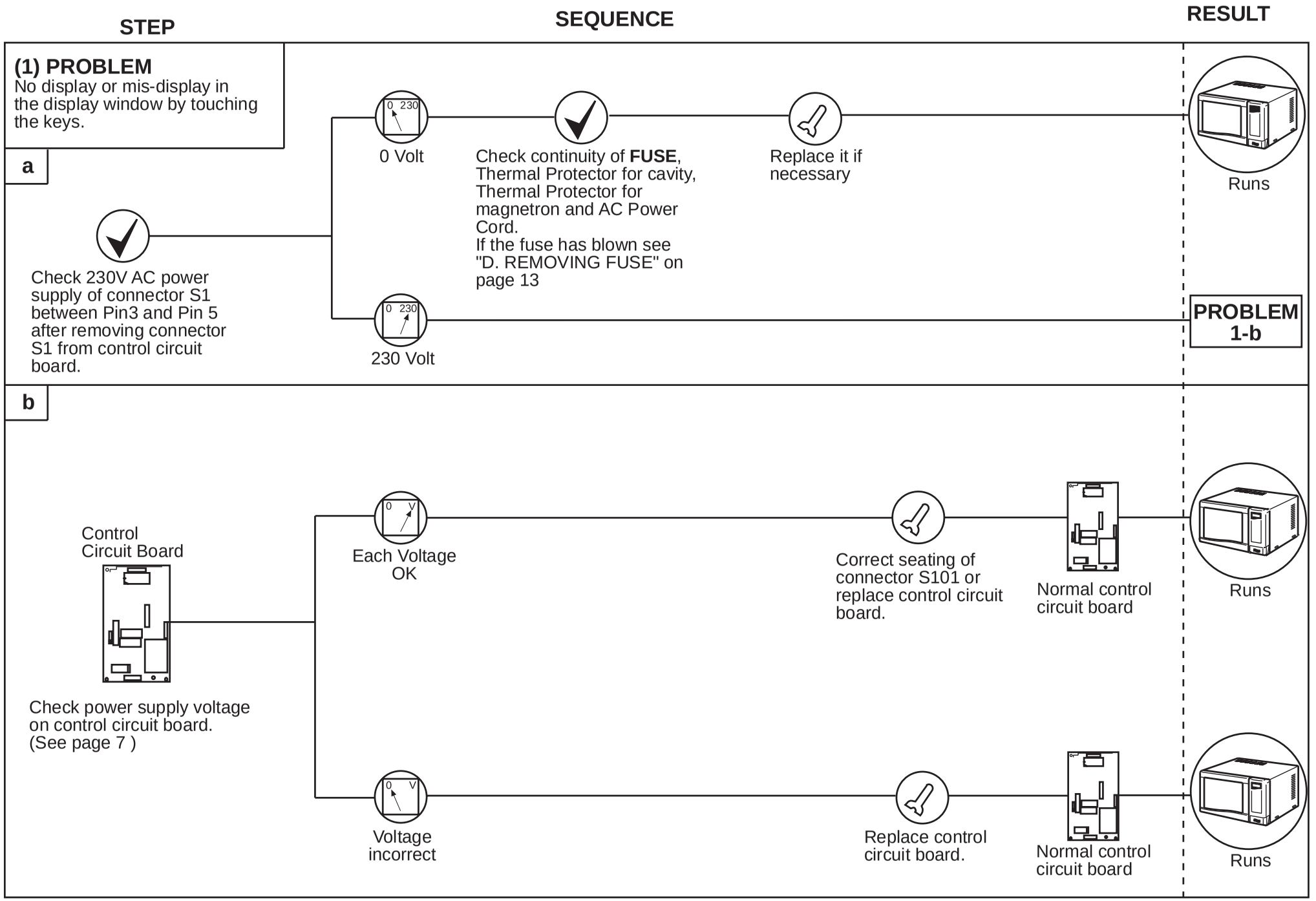
CHECKOUT PROCEDURE FOR SWITCHES

Disconnect the lead wires from the switches and check the continuity of the switches, connecting an ohm-meter to its terminals.

SWITCH	CHECKOUT PROCEDURES	DOOR OPEN	DOOR CLOSE
Primary Interlock	Connect an ohm-meters leads to terminals "COM" and "NO" of switch		
Door Sensing			
Interlock monitor	Connect an ohm-meters leads to terminals "COM" and "NC" of switch		

CAUTION : After checking the switches, make sure that the interlock monitor switch is properly connected according to the CIRCUIT DIAGRAM on page 4.

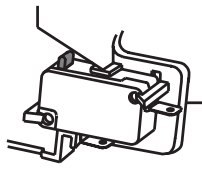
B. TROUBLESHOOTING



STEP | SEQUENCE | RESULT

(2) PROBLEM
Cooking operation will not start.

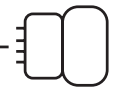
a CHECK : 1. Power Supply to Oven
2. Primary Interlock Switch
3. Thermal protector for Cavity and Magnetron



Check continuity of connector S102 between pins with the door closed after removing connector S102 from control cct board.

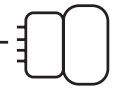
Continuity OK

Check contact of connector S102



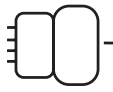
Contact OK

PROBLEM 3a

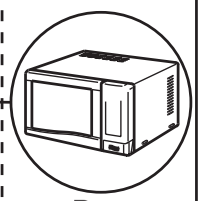


Poor Contact

Correct Seating



Normal Contact

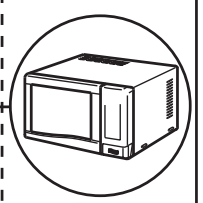


Runs

No Continuity

Adjust or Replace Door Sensing Switch

Normal Door Sensing Switch

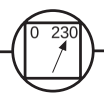


Runs

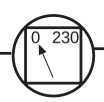
(3) PROBLEM
Oven does not heat up

a

Touch **START** key and measure voltage between the two wire leads from primary windings of H.V transformer **after removing the wire leads from terminals of H.V transformer**



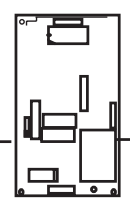
230 Volt



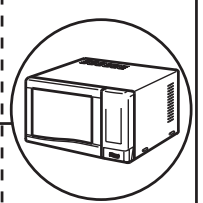
0 Volt

PROBLEM 3-b

Replace Control Circuit Board



Normal Control Cct. board



Runs

STEP | **SEQUENCE** | **RESULT**

b

Check resistance of each winding after removing lead wires. (See page 5

Resistance OK

Check H.V capacitor , H.V. diode or H.V fuse with an ohm-meter after removing the lead wires.(See page 6)

Normal H.V capacitor, H.V diode or H.V. fuse.

Replace HV Magnetron.

Normal Magnetron

Runs

Defective H.V capacitor, H.V diode or H.V. fuse.

Replace HV capacitor, H.V diode or H.V. fuse.

Normal H.V capacitor , diode or fuse.

Runs

Resistance Correct

Replace HV Transformer

Normal HV Transformer

Runs

(4) PROBLEM
Low microwave power output.

PROBLEM 3-b

a

Check operation of blower motor when START key is touched.

Normal Operation

No Operation

Temporarily short across terminals of thermal protector for magnetron or thermal protector for cavity by using jumper lead.

Normal Operation

Replace thermal protector for magnetron or thermal protector for cavity.

Normal thermal protector for magnetron or thermal protector for cavity.

Runs

No Operation

Measure resistance of blower motor (Approx 274 ohms)

Resistance incorrect

Replace Blower motor

Normal Blower Motor

Runs

Normal Resistance

Replace control circuit board.

Normal control circuit board

Runs

STEP | SEQUENCE | RESULT

(5) PROBLEM
The magnetron operates on high level when a lower cook power is selected.

a

Set power level at low.

Touch **START** key and measure voltage between leads for primary winding of H.V transformer after removing the wire leads from terminals of H.V transformer.

0 Volt

No problem
Measure water temperature rise exactly.

230 Volt

Replace control circuit board.

Normal control circuit board

Runs

(6) PROBLEM
Unit does not heat up even if display counts down when key is touched for "Grill Cooking".

a

Check resistance of heater.
Aproximately 48.7Ω measured over both terminals.

Normal Resistance.

Replace control circuit board.

Normal control circuit board

Runs

Resistance Incorrect.

Replace Heater

Normal Heater

Runs

8.DISASSEMBLY INSTRUCTIONS

- OVEN MUST BE DISCONNECTED FROM ELECTRICAL OUTLET WHEN MAKING REPLACEMENTS, REPAIRS, ADJUSTMENTS, AND CONTINUITY CHECKS BEFORE PROCEEDING WITH ANY REPAIR WORK AFTER DISCONNECTING. WAIT AT LEAST 1 MINUTE, UNTIL THE CAPACITOR IN THE HIGH VOLTAGE AREA HAS FULLY DISCHARGED.
- WHEN REPLACING ANY DOOR MICRO SWITCH, REPLACE WITH THE SAME TYPE SWITCH SPECIFIED ON THE PARTS LIST.

A. REMOVING PRIMARY INTERLOCK SWITCH, DOOR SENSING SWITCH AND INTERLOCK MONITOR SWITCH

(See Figure 1 on page 1 and Figure 12 on this page)

(1) Remove 2 screws securing the lever stopper.
(2) Disconnect all lead wires from the primary interlock switch, door sensing switch and the interlock monitor switch
(3) Ease away the retaining clips holding the Primary interlock switch onto the lever stopper and remove.
(4) Remove the door sensing switch by reference to the step (3).
(5) Remove the interlock monitor switch by reference to step (3).
(6) Make the necessary adjustment, and make microwave energy leakage check according to “1. ADJUSTMENT PROCEDURES” on page 1. After the switch is replaced with a new one, check proper operation of it according to “CHECKOUT PROCEDURE FOR SWITCHES” on page 8.

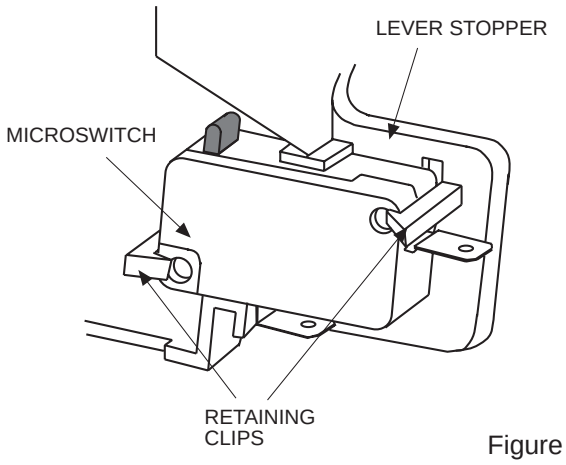


Figure 12

Interlock Switch Replacement - when replacing faulty switches, be sure switch retaining clips are not bent, broken or otherwise deficient in their ability to secure the switches in place.

B. REMOVING THE ANTENNA

(See exploded view on page 15)
(1). Remove the screw securing the cavity cover to the cavity.
(2). Remove the antenna complete by slightly bending it so the retension clips holding it slide out of the cavity wall.

C. REMOVING MAGNETRON

(See exploded view on page 16)
(1) Remove the antenna complete according to **B. REMOVING THE ANTENNA.**
(2) Disconnect the 2 lead wires from the magnetron.
(3) Remove 1 screw securing the duct to the magnetron, and take out the duct.
(7) Remove 4 screws securing the magnetron to the waveguide.
Take out the magnetron **VERY CAREFULLY.**

NOTES

- When removing the magnetron, make sure that its dome does not hit any adjacent parts, or it may be damaged.
- After replacing the magnetron, be sure to check the microwave energy leakage with a leakage detector and confirm the leakage is below 5 mW/cm^2 .

D. REMOVING FUSE

(A) Remove the 8A fuse with a screwdriver.
- When replacing the 8A fuse, be sure to use an exact repair part.
- If the 8A fuse blows immediately, check the primary interlock switch and the interlock monitor switch (terminals “C” and “NC”) according to “CHECKOUT PROCEDURE FOR SWITCHES” on page 8, and make sure to check the microwave energy leakage according to “1. ADJUSTMENT PROCEDURE” on page 1, when the primary interlock switch or the interlock monitor switch is replaced.
- If the primary interlock switch is defective, replace not only the primary interlock switch but also the interlock monitor switch.
Then install a new 8A fuse.
- If the primary interlock switch and the interlock monitor switch (terminals “C” and “NC”) operate properly, determine which of the following is defective: blower motor, turntable motor, high voltage transformer, high voltage capacitor, high voltage diode or magnetron.

- If the high voltage diode is defective , replace not only the high voltage diode but also the HV fuse.

E. REMOVING DOOR

(1) Remove the 2 screws securing the upper hinge.
(2) Tilt the top of the door toward you.
(3) Lift up the door to remove it.

When replacing the door body or door assembly the new door has to be set properly ensuring the correct door gap between door body and cavity front.

To set the new door;
1. Mount door loosely on cavity.
2. Before tigthening the top and bottom hinge screws place feeler gauges (the thickness varies for different models- see table below) between the door assembly and the cavity front plate between the top and bottom hinges.
NB. Be careful not to scratch the door cover with the feeler gauges.
3. The door should then be aligned with the control base and held firmly in place leaving a gap within 1-2mm. between the door cover and control base.

4. The hinge screws should then be tightened to hold the door in place, and the feeler gauges removed.
5. The door gap should then be checked again using feeler gauges.

Below is a table giving the door setting for the:-
EM-G4750

DOOR GAP	
Lower Limit	Upper Limit
0.2mm.	0.8mm.

After setting the door gap, the door is closed with the door latch fully engaged and the screws securing the switch base are loosened. The switch base is then eased to the right to pull the door face hard onto the front of the microwave. The screws are then secured tight. To check if the operation has been carried out correctly push the door top and bottom. Any movement should be minimal, and the door should feel tight to the front face of the microwave.Confirm that the operation has been successfully carried out by depressing the door release lever until the microswitches are heard to operate. This occurs just before the door opens.

NOTES

- After replacing the door, be sure to check that the primary interlock switch, door sensing switch and the interlock monitor switch operate normally. (See page 1).
- After replacing the door check for microwave energy leakage with a leakage detector.
  Microwave energy leakage must be below the limit of 5mW/cm^2.

F. DISASSEMBLYING DOOR

(See exploded view on page 18)

(1) Insert a thin flat blade screwdriver between the choke dielectric and the door mainframe and lift up the choke dielectric to release the hooks one by one.
(2) To remove door cover, remove the 2 screws securing the door cover to the door main frame
(3) Insert a thin flat blade screwdriver between the door cover and door mainframe and release the hooks one by one.
(4) To detach the glass door panel, insert a thin flat blade screwdriver between the door panel and door cover and release the clips one by one.

NOTES

- The choke dielectric, the glass door panel and the door cover may be damaged when they are removed. When re-installing them, replace them with new ones if they are damaged.
- After installing the door in place, check for microwave energy leakage with a leakage detector.
  Microwave energy leakage must be below the limit of 5mW/cm^2.

G. CHANGiNG POWER SUPPLY CORD

(See exploded view on page 16)

(1) Removing the earthing screw.
(2) Remove the power supply cord from the terminal of PCB complete.
(3) Remove power cord from cavity assembly by lifting cord bush, moving it to the left and pulling it away from cavity rear plate.
(4) Install the new power supply cord with the reverse procedure of above (1) to (3).

WARNING
For changing the power supply cord, never use parts other than the following :
Part Name : Power Supply Cord Assembly
Part No : **617 220 4925** (Continental)

H. REMOVING TURNTABLE MOTOR COVER

(Refer to Figures 13 and 14 below)

(1) Turn the unit and cut the 6 joints of the bottom plate and the motor cover using diagonal pliers (nipper). (See Figure 13)
(2) Seperate the motor cover and the bottom plate.

NOTES

- Bend the cut joints inside slightly for safety and be careful of the sharp edges.

RE-INSTALL :

(1) Rotate the motor cover through 180˚.
(2) Insert the edge of the motor cover into the tab on the bottom plate.
(3) Secure the motor cover by screwing it to the bottom plate (See Figure 14)

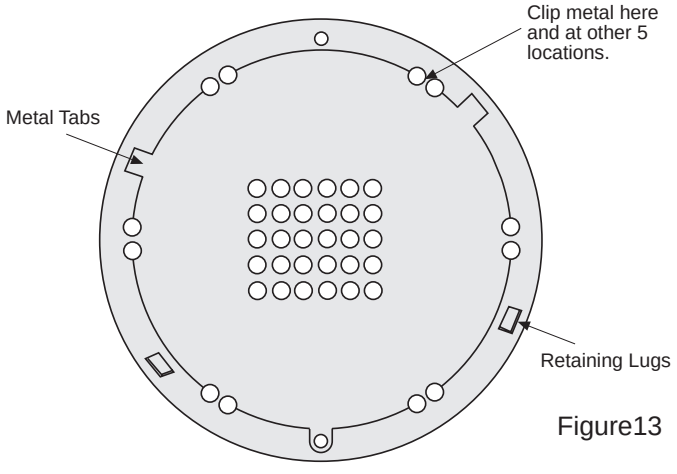


Figure13

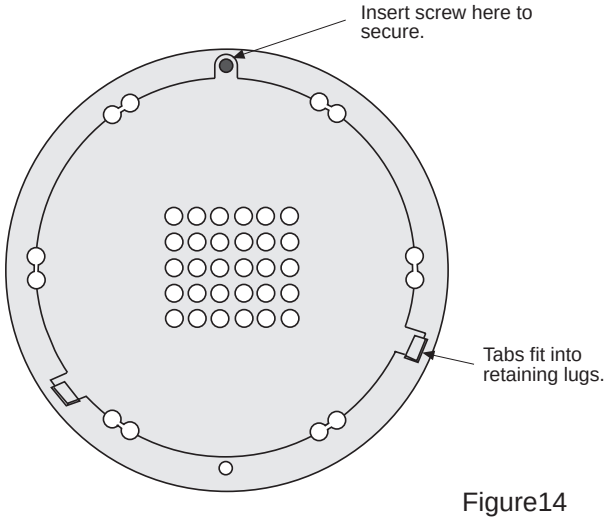
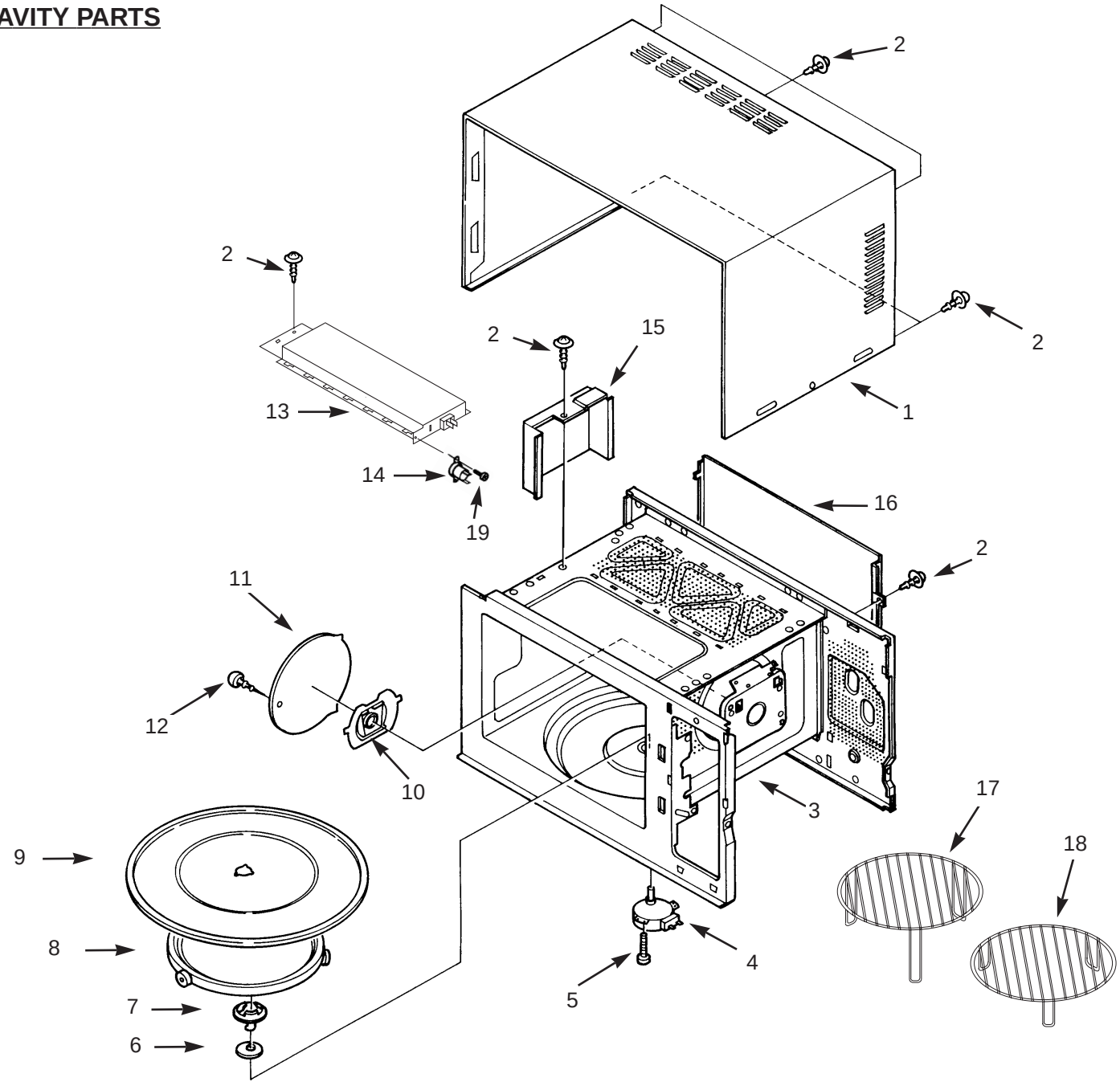


Figure14

8. EXPLODED VIEW AND PARTS LIST
CAVITY PARTS

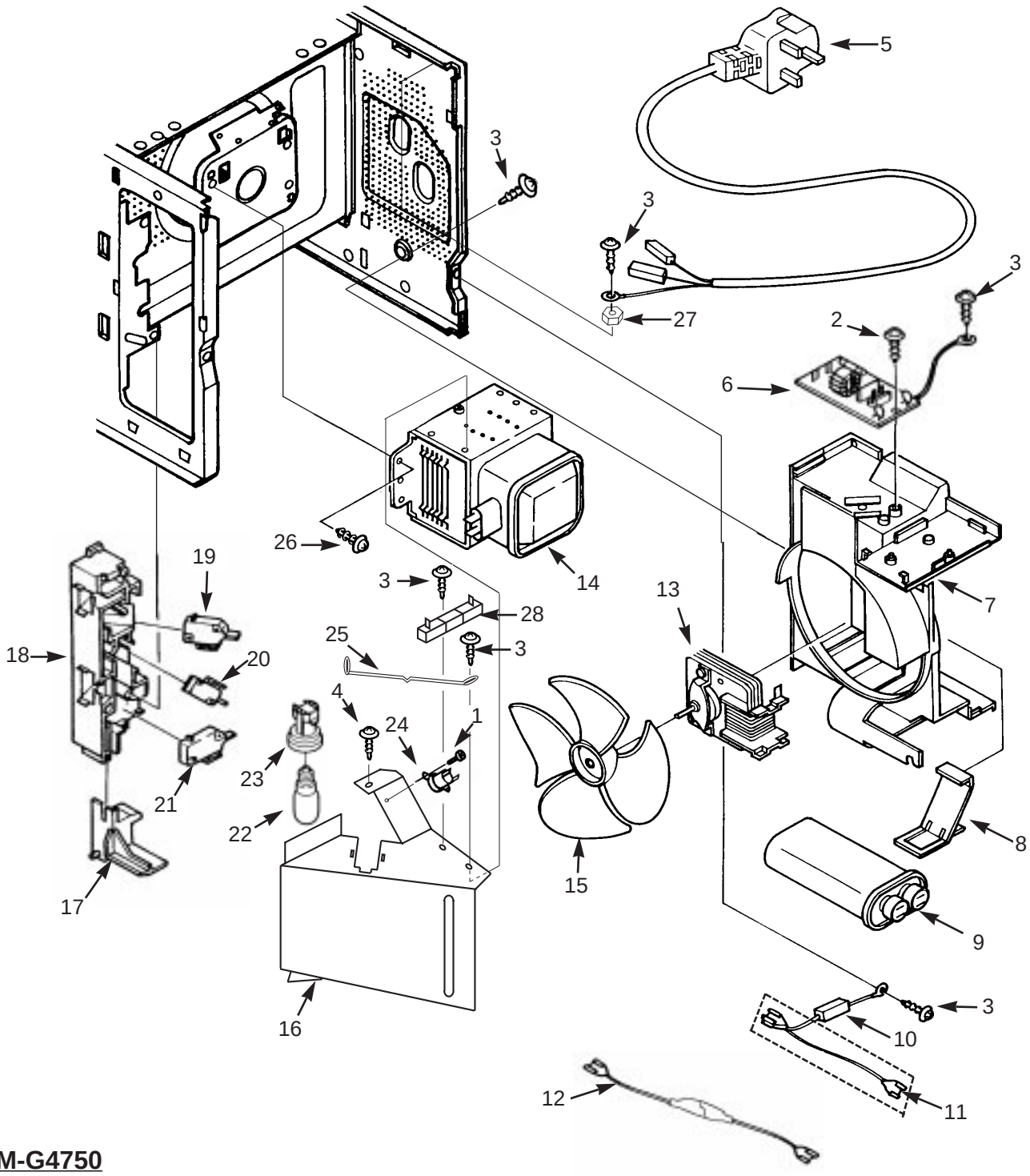


EM-G4750

Key No.	Part No.	Description	Q'ty
1	617 188 0595	Cabinet	1
2	411 156 5601	SCR TPG PAN+F+S 4x10	7
3	617 221 2814	Cavity	1
4	617 123 9928	Gear Motor	1
5	411 001 6005	SCR S-TPG PAN 4x8	2
6	617 080 5315	Special Washer	1
7	617 144 4476	Turntable Shaft	1
8	617 155 2386	Roller	1
9	617 167 1421	Glass Tray	1
10	617 177 3156	Antenna Complete	1
11	617 169 8930	Cavity Cover	1
12	412 037 5901	SCR TPG TRS 4x6K	1

Key No.	Part No.	Description	Q'ty
13	617 221 0025	Heater Complete	1
14	617 202 4554	Thermostat, 150˚C	1
15	617 167 0431	Duct	1
16	617 169 6875	Frame Rear Plate	1
17	617 166 2153	Cook Net	1
18	617 170 5058	Cook Net	1
19	411 010 5600	SCR EVR PAN 3x6	1

SWITCHES AND MICROWAVE PARTS



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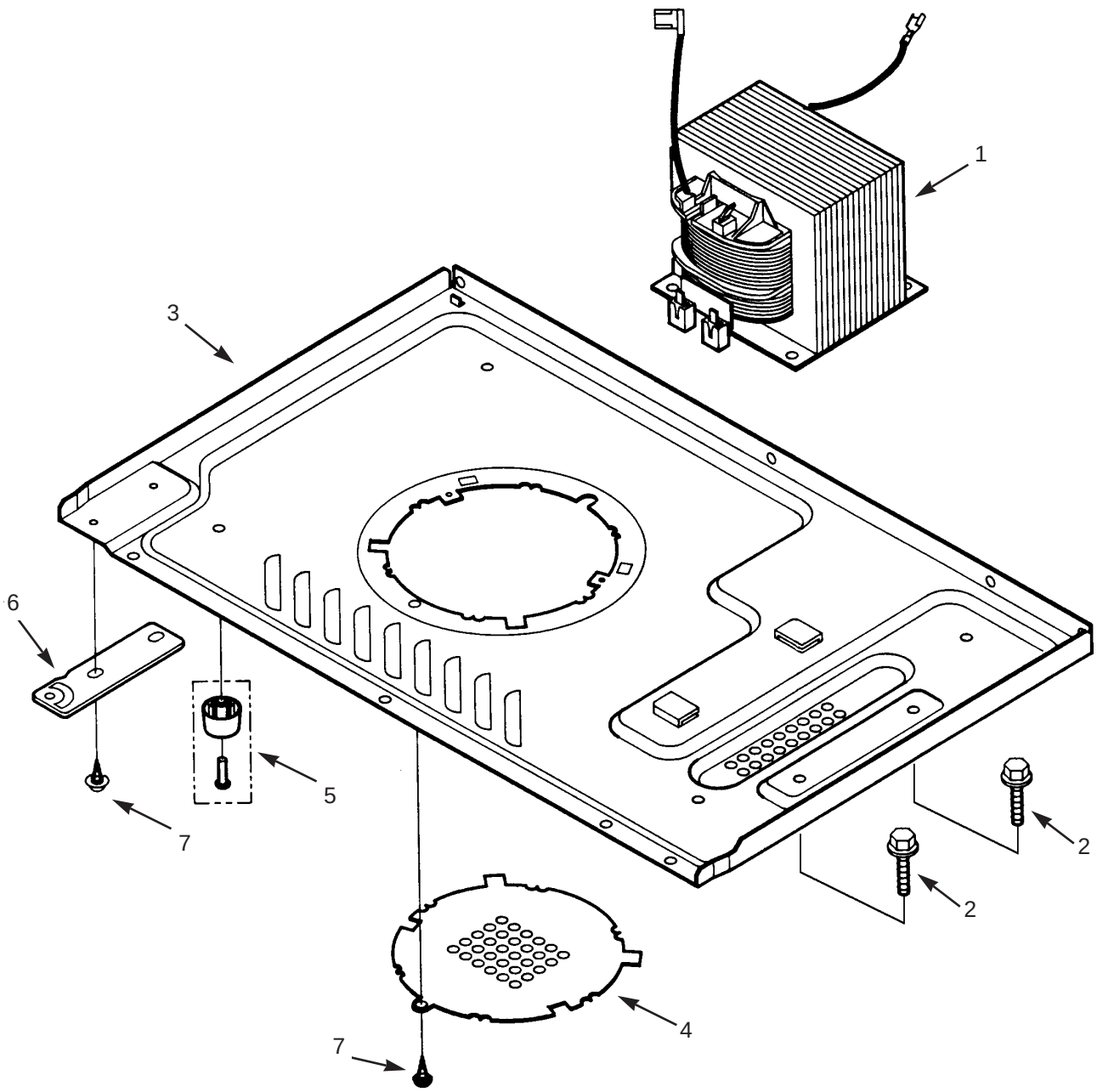
Key No.	Part No.	Description	Q'ty
1	411 010 5600	SCR EVR PAN 3x6	1
2	411 156 5601	SCR TPG PAN+F+S 4x10	1
3	411 156 5502	SCR S-TPG PAN+F+S 4x10	6
4	411 171 9004	SCR TPG TRS+FLG 3x8	1
5	617 220 4925	Power Supply Cord	1
6	617 179 0746	Terminal Cct Board	1
7	617 167 0417	Space Partition	1
8	617 162 2041	Capacitor Band	1
9	617 213 1849	Capacitor 1.14uF	1
10	617 182 6548	Diode Ass'y	1
11	617 167 0561	Lead Wire Ass'y	1
12	617 213 4819	HV Fuse	1
13	617 167 0592	Blower Motor	1
14	415 002 5005	Magnetron	1
15	617 112 1025	Fan	1
16	617 220 1764	Duct	1
17	617 124 1181	Latch Lever	1

Key No.	Part No.	Description	Q'ty
18	617 167 5627	Lever Stopper	1
19	617 220 4529	Door Sensing Switch	1
20	617 220 4536	Interlock Monitor Switch	1
21	617 220 4529	Primary Interlock Switch	1
22	617 149 3009	Lamp 250V 25W	1
23	617 119 3480	Lamp Socket	1
24	617 202 4561	Thermostat V122˚C	1
25	617 220 1757	Stay Plate	1
26	617 218 9673	Special Screw	4
27	411 004 5609	NUT HEX M4	1
28	402 071 0703	Ceramic Resistor	1

MICROWAVE PARTS



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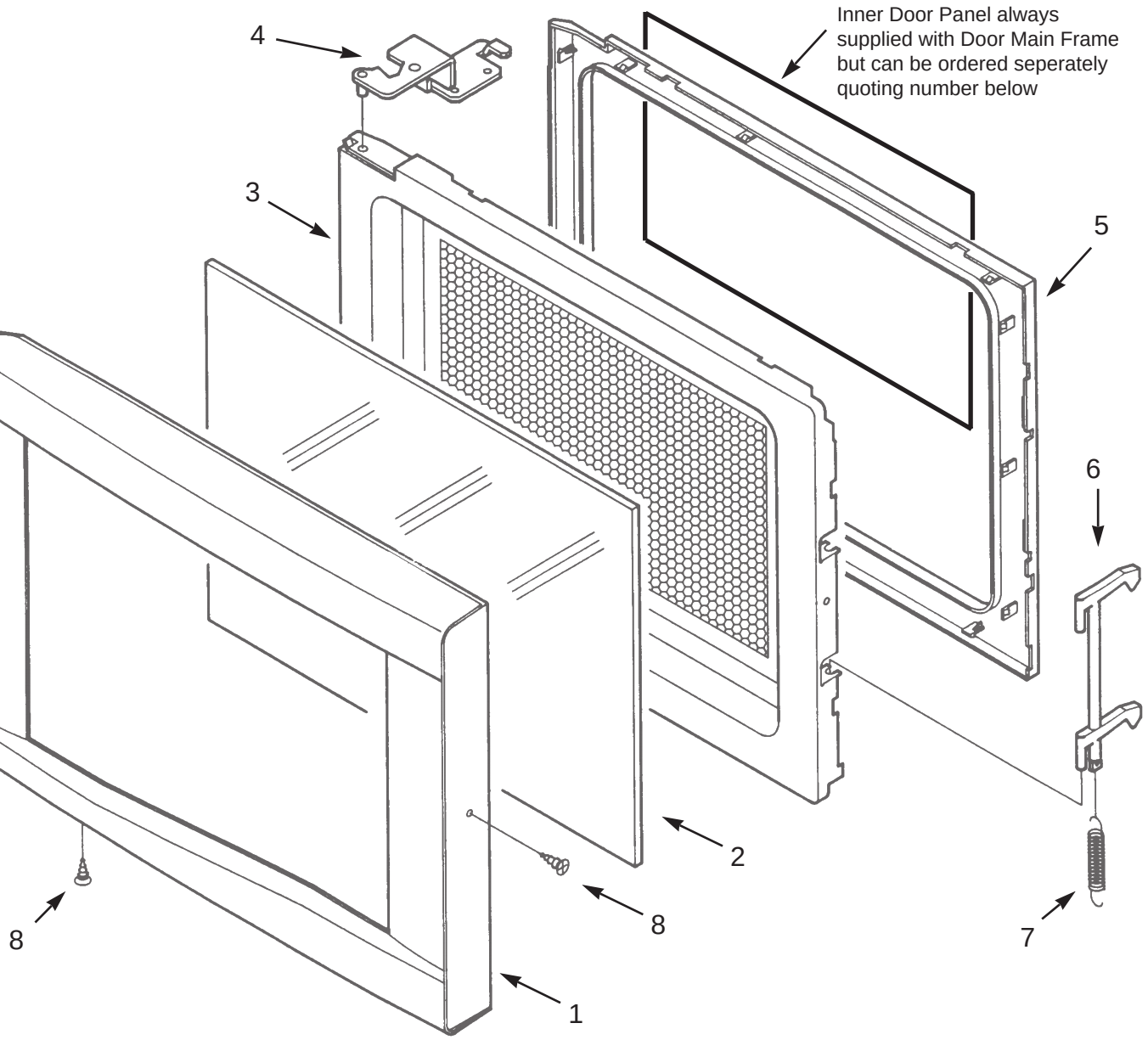
Key No.	Part No.	Description	Q'ty
1	617 209 4557	Transformer	1
2	617 225 1721	Special Screw	2
3	617 220 7957	Bottom Plate	1
4	----------	Gear Motor Cover	1
5	617 144 5435	Foot Cushion Assembly	4
6	617 166 7493	Bottom Hinge	1
7	411 156 5602	SCR S-TPG PAN+F+S 4x10	3

DOOR PARTS



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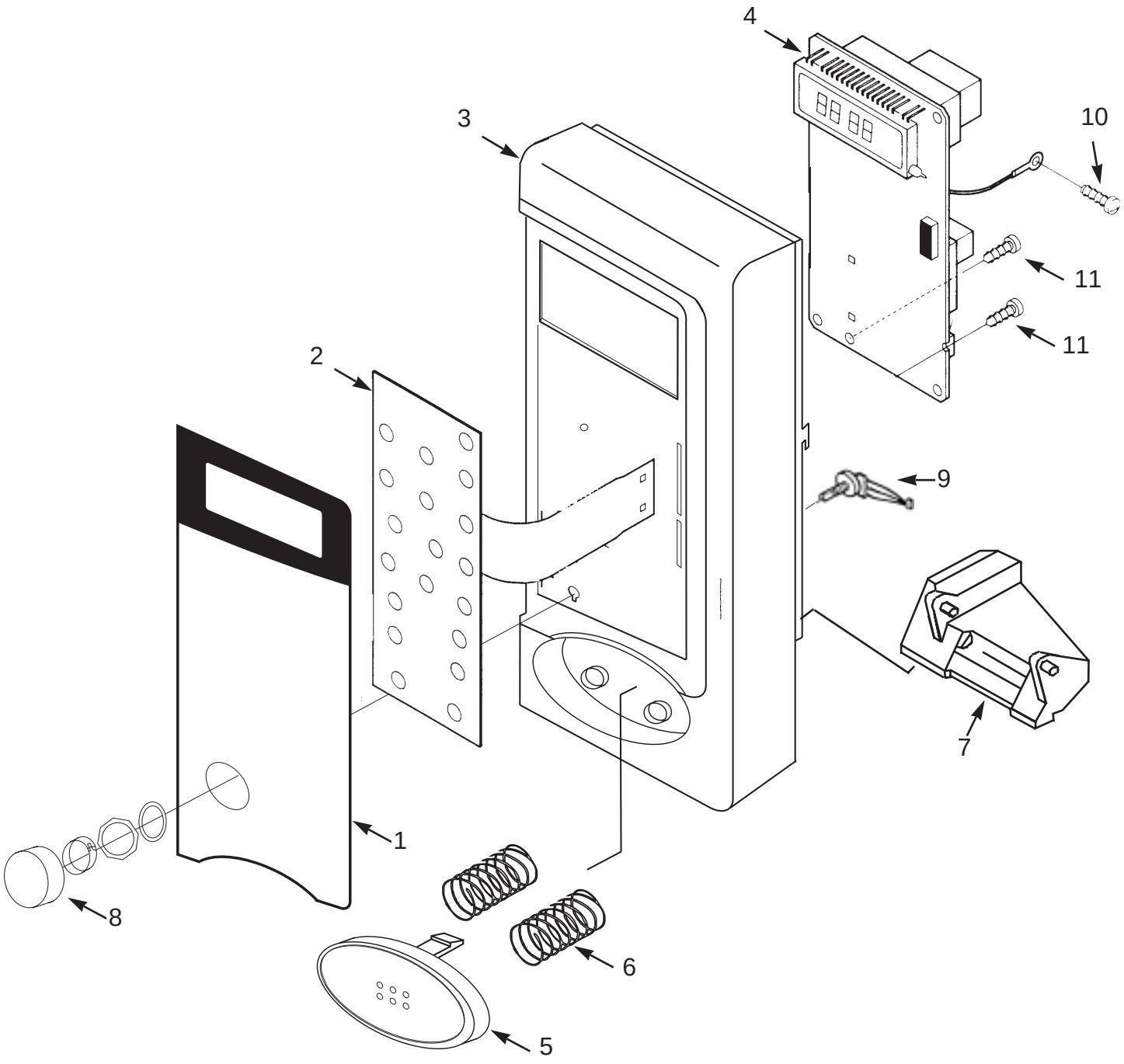
Key No.	Part No.	Description	Q'ty
1	617 222 6484	Door Cover	1
2	617 169 6806	Glass Door Panel	1
3	617 169 6790	Door Main Frame(Supplied with inner Door Panel)	1
*	617 144 2472	Glass Inner Door Panel	1
4	617 167 0189	Hinge	1
5	617 167 1292	Choke Dielectric	1
6	617 101 1487	Door Latch	1
7	617 101 1494	Spring	1
8	411 071 9104	SCR TPG FLT 3x8	2
*	617 222 6453	Door Ass'y	1

NB. Please refer to the detailed instructions for door setting on page 14 of the service manual before changing, adjusting or repairing these parts.

*Items Not Illustrated

CONTROL PANEL PARTS



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Key No.	Part No.	Description	Q'ty
1	617 222 8464	Control Sheet	1
2	617 218 0304	Touch Keyboard	1
3	617 218 0113	Control Frame	1
4	617 222 6736	PCB Complete	1
5	617 218 0168	Door Release Lever	1
6	617 188 3329	Spring	1
7	617 135 8407	Latch Lever	1
8	617 198 5146	Knob Assembly	1
9	617 197 4836	PCB Complete	1
10	411 156 5502	SCR S-TPG PAN+F+S4x10	1
11	411 064 2709	SCR TPG BIN 3x14	2

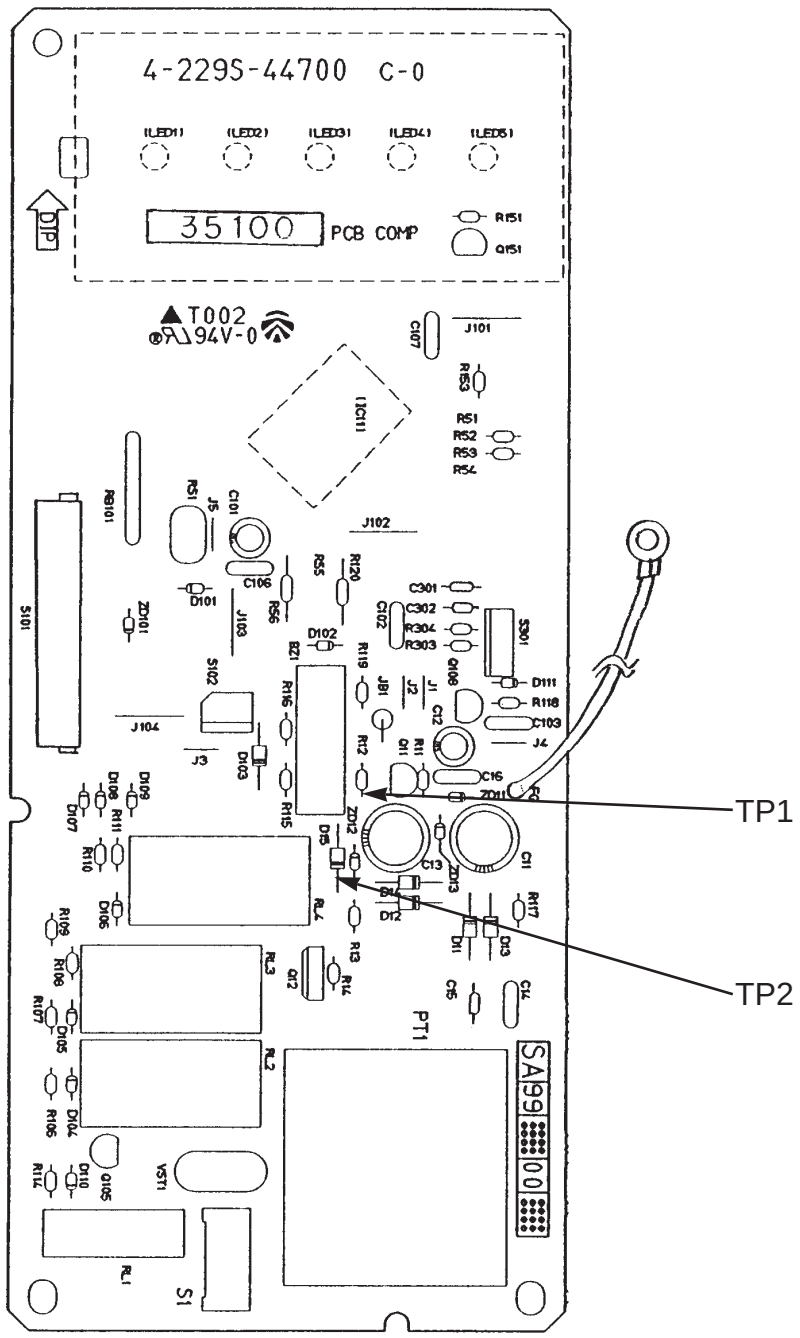
Key No.	Part No.	Description	Q'ty
*	617 222 6347	Operating Instr (EES)	1
*	617 224 0732	Operating Instr (ECO)	1
*	617 224 0749	Operating Instr (ECO)	1
*	617 224 0756	Operating Instr (ECO)	1
*	617 221 7420	Carton Box	1

* These items not illustrated

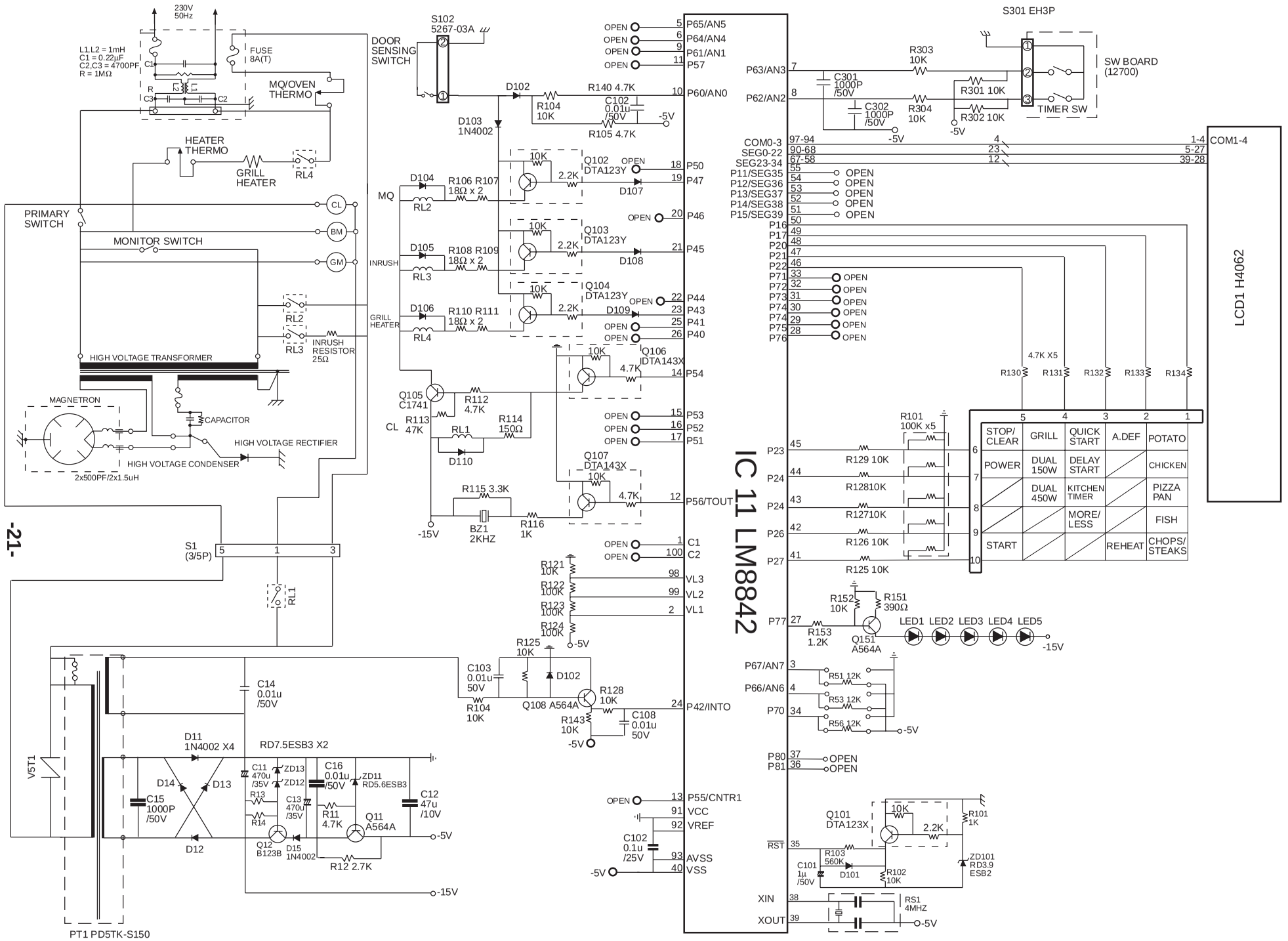
10.CONTROL CIRCUIT BOARD

EM-G4750 Continental Version.

Model	Version	Spares No.	RL3	M.Processor
EM-G4750	Spain Semo	617 222 6736	Yes	LM8842



11. OVERALL CIRCUIT DIAGRAM
EM-G4750 Continental Model.



Please Note

All the information that appears in this service manual was correct at the time of production. SANYO Electric Manufacturing reserves the right to make changes to parts or processes in order to maintain their policy of continuing improvement.

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